

EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|-------|---|---------------------------|------------------|---------|------------------|
| L1 | 13866 | ((revers\$3 switch\$3 chang\$3 inver\$5 opposite) near4 (te tes (track\$3 near3 (error signal)))) | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2008/11/18 14:00 |
| L2 | 7631 | ((disc disk medium) near2 (type kind catagory)) near10 (discriminat\$4 determin\$5) | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2008/11/18 14:00 |
| L3 | 311 | (369/53.23).CLS. | US-PGPUB; USPAT | OR | OFF | 2008/11/18 14:00 |
| L4 | 34 | L3 and L1 and L2 | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2008/11/18 14:00 |
| L5 | 4 | (half near2 wavelength) with 1 | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2008/11/18 14:00 |
| L6 | 11 | (half near2 wavelength) same 1 | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2008/11/18 14:01 |
| L7 | 13 | (half near3 wavelength) same 1 | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2008/11/18 14:02 |
| L8 | 76239 | ((on near2 track) on-track) near2 determination) (track\$3 near2 (error signal)) | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2008/11/18 14:05 |
| L11 | 50589 | ("369").CLAS | US-PGPUB; USPAT | OR | OFF | 2008/11/18 14:07 |
| L13 | 6323 | Ishiyama.in. | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2008/11/18 14:11 |
| L15 | 0 | ((revers\$4 inveter\$3 opposite polarit\$4) adj (((on near2 track) on-track) adj2 determination) and (track\$3 adj2 (error signal)) and (half adj2 (wave wavelength)))) .clm. | US-PGPUB | OR | ON | 2008/11/18 14:15 |

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|-----|---------|---|---------------------------|----|-----|------------------|
| L16 | 1 | ((revers\$4 invert\$3 opposite polarit\$4) adj (track\$3 adj2 (error signal)) and (((on near2 track) on-track) adj2 determination) and (half adj2 (wave wavelength))). clm. | US-PGPUB | OR | ON | 2008/11/18 14:16 |
| L17 | 76231 | ((revers\$4 invert\$3 opposite polarit\$4) with (((on near2 track) on-track) near2 determination) (track\$3 near2 (error signal))) | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2008/11/18 14:17 |
| L18 | 136 | 11 and ((half near2 (wave wavelength)) same 17) | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2008/11/18 14:18 |
| L19 | 4 | 13 and 17 | US-PGPUB | OR | ON | 2008/11/18 14:19 |
| S1 | 1 | ("20040223425"). FN. | US-PGPUB; USPAT | OR | OFF | 2007/02/09 09:09 |
| S2 | 246 | (369/53.23). CCLS. | US-PGPUB; USPAT | OR | OFF | 2007/01/26 13:49 |
| S3 | 545063 | ((optical compact) near2 (disk\$2 disc\$2 medium)) CD DvD CDROM DvDROM "CD-ROM" "DvD-ROM" (digital near2 (versatile video) near2 (disk disc)) | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/01/26 13:49 |
| S4 | 124338 | (tracking near3 error near3 signal\$3) TES TE | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/01/26 13:50 |
| S5 | 89506 | object\$3 near2 lens | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/01/26 13:50 |
| S6 | 6593393 | control\$3 adjust\$4 manipul\$4 guid\$6 | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/01/26 13:53 |
| S7 | 290196 | polarit\$3 | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/01/26 13:53 |
| S8 | 2471 | S3 and (S5 same S6 same S4) | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/01/26 14:03 |
| S9 | 54 | S2 and (S5 same S6 same S4) | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/01/26 14:04 |

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|-----|---------|---|---------------------------------|----|-----|---------------------|
| S10 | 578 | S3 and (S5 same S6 same S4) and S7 | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/01/26 14:03 |
| S11 | 14 | S2 and (S5 same S6 same S4) and S7 | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/01/26 14:30 |
| S12 | 246 | (369/53.23).CCLS. | US-PGPUB; USPAT | OR | OFF | 2007/01/29 15:31 |
| S13 | 124377 | (tracking near3 error near3 signal\$3) TES TE | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/01/29 15:31 |
| S14 | 89603 | object\$3 near2 lens | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/01/29 15:31 |
| S15 | 6603006 | control\$3 adjust\$4 manipul\$4 guid\$6 | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/01/29 15:31 |
| S16 | 290291 | polarit\$3 | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/01/29 15:31 |
| S17 | 14 | S12 and (S14 same S15 same S13) and S16 | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/01/29 16:30 |
| S18 | 434320 | ((disc disk medium) near2 (type kind category)) discriminat\$4 | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/01/29 16:32 |
| S19 | 11907 | ((disc disk medium) near2 (type kind category)) same (discriminat\$4 determin\$3) | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/01/29 16:32 |
| S20 | 10 | S17 and S18 | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/01/31 08:07 |
| S21 | 3 | S17 and S19 | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/01/29 16:32 |
| S22 | 1 | ("6275466").PN. | US-PGPUB; USPAT | OR | OFF | 2007/01/31 08:08 |
| S23 | 124463 | (tracking near3 error near3 signal\$3) TES TE | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/01/31 08:21 |
| S24 | 546047 | ((optical compact) near2 (disk\$2 disc\$2 medium)) CD DvD CDROM DvDROM "CD-ROM" "DvD-ROM" (digital near2 (versatile video) near2 (disk disc)) | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/01/31 08:12 |

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| S25 | 6606067 | control\$3 adjust\$4 manipulat\$4 guid\$6 | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/01/31 08:43 |
| S26 | 89665 | object\$3 near2 lens | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/01/31 08:12 |
| S27 | 11920 | ((disc disk medium) near2 (type kind catagory)) same (discriminat\$4 determin\$3) | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/01/31 08:13 |
| S28 | 257344 | (polarit\$3 signal) near6 (revers\$3 invert\$3) | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/01/31 08:14 |
| S29 | 128530 | (tracking near3 error near3 signal\$3) TES TE (push near2 pull near5 signal) | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/01/31 08:22 |
| S30 | 473 | wavelength same (half halved) same S29 | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/01/31 08:41 |
| S31 | 122 | ((on near2 track) on- track) near5 determin\$6 | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/01/31 08:42 |
| S32 | 10 | S24 and (S29 same S28) and (S25 same S26) and S30 | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/01/31 08:47 |
| S33 | 6261835 | control\$3 adjust\$4 manipulat\$4 shift\$3 | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/01/31 08:48 |
| S34 | 122 | ((on near2 track) on- track) near5 determin\$6 | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/01/31 08:50 |
| S35 | 128530 | (tracking near3 error near3 signal\$3) TES TE (push near2 pull near5 signal) | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/01/31 08:51 |
| S36 | 42 | S33 same S34 | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/01/31 08:52 |
| S37 | 16 | S33 near10 S34 | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/01/31 08:52 |
| S38 | 2 | (S33 near10 S34) same S35 | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/01/31 08:52 |
| S40 | 7 | S33 same S34 same S35 | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/01/31 13:03 |

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|-----|---------|---|---------------------------------|----|-----|---------------------|
| S41 | 3568596 | read\$4 reproduc\$4 | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/01/31 13:04 |
| S42 | 128530 | (tracking near3 error near3 signal\$3) TES TE (push near2 pull near5 signal) | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/01/31 13:05 |
| S43 | 290487 | polarit\$3 | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/01/31 13:07 |
| S44 | 78964 | guid\$3 near2 groove | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/01/31 13:18 |
| S45 | 329 | S44 same S41 same S42 | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/01/31 13:19 |
| S46 | 116 | S45 and S43 | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/01/31 13:20 |
| S47 | 17 | S45 same S43 | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/01/31 13:20 |
| S48 | 17132 | determin\$6 near5 (readable reproducible (able ability) near5 (read \$4 reproduc\$4))) | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/02/09 09:11 |
| S49 | 124804 | (tracking near3 error near3 signal\$3) TES TE | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/02/09 09:26 |
| S51 | 246 | (369/ 53.23).CCLS. | US-PGPUB; USPAT | OR | OFF | 2007/02/09 09:12 |
| S52 | 8 | S48 and S49 and S51 | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/02/09 09:26 |
| S53 | 543293 | lens\$2 | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/02/09 09:26 |
| S56 | 128884 | (tracking near3 error near3 signal\$3) TES TE (push near2 pull near5 signal) | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/02/09 09:28 |
| S57 | 352460 | (revers\$3 near5 polarity) inverse\$2 | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/02/09 09:29 |
| S58 | 0 | S51 and (S56 same S57 same S53) and S48 | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/02/09 09:29 |
| S59 | 1 | (S56 same S57 same S53) and S48 | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/02/09 11:09 |

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| S60 | 44550 | ("369").CLAS | US-PGPUB; USPAT | OR | OFF | 2007/02/09 11:09 |
| S61 | 23 | S60 and (((revers\$3 switch \$3 chang\$3 inver\$5) near4 (te tes (track\$3 near3 (error signal))) near3 polarity) same ((disk disc) near3 (type kind discriminat\$3))) | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/02/09 11:12 |
| S62 | 46237 | ("369").CLAS | US-PGPUB; USPAT | OR | OFF | 2007/08/03 17:56 |
| S63 | 23 | S62 and (((revers\$3 switch \$3 chang\$3 inver\$5) near4 (te tes (track\$3 near3 (error signal))) near3 polarity) same ((disk disc) near3 (type kind discriminat\$3))) | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/08/03 17:56 |
| S64 | 18858 | determin\$6 near5 (readable reproducible ((able ability) near5 (read \$4 reproduc\$4))) | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/08/03 17:56 |
| S65 | 130839 | (tracking near3 error near3 signal\$3) TES TE | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/08/03 17:56 |
| S66 | 263 | (369/53.23).CCL.S. | US-PGPUB; USPAT | OR | OFF | 2007/08/03 17:56 |
| S67 | 9 | S64 and S65 and S66 | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/08/03 17:56 |
| S68 | 263 | (369/53.23).CCL.S. | US-PGPUB; USPAT | OR | OFF | 2007/08/03 17:56 |
| S69 | 130839 | (tracking near3 error near3 signal\$3) TES TE | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/08/03 17:56 |
| S70 | 93663 | object\$3 near2 lens | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/08/03 17:56 |
| S71 | 6869022 | control\$3 adjust\$4 manipulat\$4 guid\$6 | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/08/03 17:56 |
| S72 | 302783 | polarit\$3 | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/08/03 17:56 |
| S73 | 15 | S68 and (S70 same S71 same S69) and S72 | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/08/03 17:56 |
| S74 | 455171 | ((disc disk medium) near2 (type kind catagory)) discriminat\$4 | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/08/03 17:56 |

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|-----|---------|--|---------------------------------|----|-----|---------------------|
| S75 | 10 | S73 and S74 | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/08/03 17:56 |
| S76 | 263 | (369/53.23).CCLS. | US-PGPUB; USPAT | OR | OFF | 2007/08/03 17:56 |
| S77 | 130839 | (tracking near3 error near3 signal\$3) TES TE | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/08/03 17:56 |
| S78 | 93663 | object\$3 near2 lens | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/08/03 17:56 |
| S79 | 6869022 | control\$3 adjust\$4 manipulat\$4 guid\$6 | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/08/03 17:56 |
| S80 | 302783 | polarit\$3 | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/08/03 17:56 |
| S81 | 15 | S76 and (S78 same S79 same S77) and S80 | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/08/03 17:56 |
| S82 | 9 | S64 and S65 and S66 | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/08/03 17:56 |
| S83 | 47805 | ("369").CLAS. | US-PGPUB; USPAT | OR | OFF | 2008/02/06 14:08 |
| S85 | 2926 | S83 and ((revers\$3 switch \$3 chang\$3 inver\$5 opposite) near4 (te tes (track\$3 near3 (error signal)))) | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2008/02/06 15:09 |
| S86 | 147764 | (disk disc medium) near2 (type category) | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2008/02/06 15:09 |
| S87 | 12976 | ((revers\$3 switch\$3 chang \$3 inver\$5 opposite) near4 (te tes (track\$3 near3 (error signal)))) | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2008/02/06 15:09 |
| S88 | 1312 | S83 and S87 and S86 | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2008/02/06 15:10 |
| S89 | 369 | S83 and S87 and S86 and (address\$3 near2 data) | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2008/02/06 15:10 |
| S90 | 17 | S83 and S86 and (S87 same (address\$3 near2 data)) | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2008/02/06 15:11 |
| S91 | 1 | ("20030202436").FN. | US-PGPUB; USPAT | OR | OFF | 2008/02/07 08:24 |

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|------|--------|--|---------------------------------|----|-----|---------------------|
| S92 | 1 | ("7292509").PN. | US-PGPUB; USPAT | OR | OFF | 2008/02/07 08:25 |
| S93 | 18 | ("20010007545" "20030016603" "20030048719" "20030137910" "20030179688" "4972399" "5124962" "5255262" "5452284" "6052465" "6078559" "6272086" "6295262" "6343062" "6377526" "6937544" "6958965" "6992959").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2008/02/07 08:25 |
| S94 | 47835 | ("369").CLAS. | US-PGPUB; USPAT | OR | OFF | 2008/02/07 08:25 |
| S95 | 148051 | (disk disc medium) near2 (type category) | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2008/02/07 08:25 |
| S96 | 12984 | ((revers\$3 switch\$3 chang \$3 inver\$5 opposite) near4 (te tes (track\$3 near3 (error signal)))) | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2008/02/07 08:25 |
| S97 | 17 | S94 and S95 and (S96 same (address\$3 near2 data)) | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2008/02/07 08:25 |
| S98 | 4 | S93 and S96 | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2008/02/07 08:26 |
| S99 | 12999 | ((revers\$3 switch\$3 chang \$3 inver\$5 opposite) near4 (te tes (track\$3 near3 (error signal)))) | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2008/02/14 08:47 |
| S101 | 6888 | ((disc disc medium) near2 (type kind catagory)) near10 (discriminat\$4 determin\$5) | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2008/02/14 08:48 |
| S102 | 280 | S99 and S101 | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2008/02/14 08:49 |
| S103 | 47892 | ("369").CLAS. | US-PGPUB; USPAT | OR | OFF | 2008/02/14 08:49 |
| S104 | 239 | S103 and S99 and S101 | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2008/02/14 08:49 |
| S105 | 277 | (369/53.23).CCLS. | US-PGPUB; USPAT | OR | OFF | 2008/02/14 08:49 |
| S106 | 33 | S105 and S99 and S101 | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2008/02/14 08:49 |

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